

Claims

1. Moisture absorptive and desorptive ultrafine particles, characterized in that, the said particles consist of a cross-linked polymer containing 1.0 to 10.0 meq/g of a salt-type carboxyl group as a polar group where an average primary particle size is not more than 0.2 μm and saturated moisture absorptive ratios at 65% RH and 90% RH at 20°C are not less than 20% by weight and not less than 40% by weight, respectively.

2. The moisture absorptive and desorptive ultrafine particles according to claim 1, characterized in that, 0.1 to 2.0 meq/g of the sulfonic acid group is further contained together as a polar group.

3. The moisture absorptive and desorptive ultrafine particles according to claim 1 or 2, characterized in that, the type of the salt of the carboxyl group or the type of the salt of both polar groups is a potassium type.

4. Moisture absorptive and desorptive sheet, characterized in that, the moisture absorptive and desorptive ultrafine particles according to any one of claims 1-3 are fixed to a substrate.

5. The moisture absorptive and desorptive sheet according to claim 4, characterized in that, the ratio of the moisture absorptive and desorptive ultrafine particles in the fixed area on the substrate is more than 80% by weight.

6. The moisture absorptive and desorptive sheet according to claim 4 or 5, characterized in that, the fixation has been carried out by a reaction of a cross-linking compound.

7. The moisture absorptive and desorptive sheet according to claim 4 or 5, characterized in that, the fixation has been carried out by a polymerization of a polymerizing compound.

8. A moisture absorptive and desorptive element, characterized in that, the moisture absorptive and desorptive sheet according to any one of claims 4-7 are layered.

9. A humidifying/dehumidifying apparatus, characterized in that, it has the moisture absorptive and desorptive element according to claim 8 as one of the constituting elements.